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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURE RESEARCH SERVICE
Central Project Office

FEB 25 1969

Line Project Approvals and Discontinuances Recorded During
May 1956
CURRENT SERIAL RECORDS

APPROVED LINE PROJECTS

ARS, LIVESTOCK RESEARCH

- ADP a6-2(Rev.) Field and laboratory study of diseases of fur animals.
(Coop. - Wash. State Agr. Expt. Station)
- APH b2-6 Investigations of physiological reactions of sheep and
other ruminants in relation to metabolic disorders.
(Coop. - ADP; & WU)
- APH d1-31 Relation of inbreeding, selection and size of beef cattle
to economically important traits, and development of tech-
niques for identifying dwarfism carriers. (Coop. - Okla.
State Agr. Expt. Station)
- APH d2-21 The effects of genetic and nutritional factors on utili-
zation of forage and rate of gain of young cattle. (Coop. -
Nebr. State Agr. Expt. Station)

ARS, FARM AND LAND MANAGEMENT RESEARCH

- AE c3-6 Orchard loading of peaches in water for cooling and farm
transportation. (Coop. - Mich. State Agr. Expt. Station;
AMS-TF & AMS-BS)
- AE d1-25 Equipment systems for controlling light and temperature
for turkey breeding flocks. (Coop. - APH)
- AE d1-26 Electric fence systems and equipment for cattle grazing.
(Coop. - DH)

ARS, UTILIZATION RESEARCH

- E6 5-6 Studies on higher-than-normal aging temperatures
(above 40° F.) to increase tenderness of lower grades
of beef.
- N1 1-110 Study of the potentialities of infrared spectroscopy in
determining the physical and chemical structure of cereal
and oilseed proteins of value in the development of in-
dustrial applications.
- N1 1-117 Evaluation of periodate oxidized cereal starches for use
in the paper industry.

ARS, UTILIZATION RESEARCH(contd.)

- S3 2-17 Determination of factors affecting the bacterial production of diacetyl (2,3-butanedione) or "buttermilk-off-flavor" in the processing of citrus juice products.
- S4 1-59 Investigation of commercial cottonseed meals to provide information on chemical composition and nutritive value needed by the industry to expand utilization in poultry and swine feeds. (Coop. - APH; & HN)
- W1 2-22 Moisture, temperature changes, and quality of cakes during freezing, thawing, and frozen storage, and effects of variations in processing steps on quality.
- W3 1-97 Investigations on methods of measurement of product temperature in commercially cased frozen foods under fluctuating temperature conditions without sacrificing product.
- W3 1-98 Crystallization and phase equilibria in invert sugar and other solutions containing both dextrose and levulose at temperatures that will furnish basic information potentially useful in the freezing preservation of fruits.

AMS, MARKETING RESEARCH

- BS 1-32 Determination of chemical residues resulting from experimental treatments for the prevention and control of insects in marketing channels. (Coop. - ARS-ENT; & ARS-PPC)
- BS 2-35 Quality control of dry edible beans during shipping, handling, sorting and preparation for processing.
- BS 3-40 The development of objective methods and equipment for determining the color of dates. (Coop. - AMS-FV)
- MD 1-20 Consumer acceptance of frozen fresh cranberries. (Coop. - AMS-FV; & FCS)
- MD 3-14 Appraisal of the effects of specified merchandising practices on the sale of and consumer demand for broilers at the retail level.
- MD 3-15 Determination of the geographic and seasonal availability of poultry in retail outlets.
- OC 2-76 Organization and practices of auction markets and warehouses in the marketing of cigarette tobacco. (Coop. - CSS; & AMS-TB)
- TF 2-4 Development of more efficient poultry processing plant layouts with in-plant facilities for rendering inedible poultry byproducts. (Coop. - AMS-OC; AMS-PY; ARS-APH; & FCS)

AMS, STATE DEPARTMENTS OF AGRICULTURE

- SDA 2550-70 Expanding market outlets and improving quality of Texas
 (Tex.) poultry and egg products.
- SDA 2550-71 Expanding markets and improving quality of Vermont fluid
 (Vt.) milk. (Coop. - Vt. State Agr. Expt. Station)
- SDA 4550-55 To accumulate, analyze and publish basic and related
 (Wash.) data on the agriculture of each of the 39 counties of
 the State of Washington. (Coop. - SCS)

FARMER COOPERATIVE SERVICE

- FCS a-1-1-1(Rev.) Advisory and educational assistance on current organ-
 izational and operational problems of cotton marketing
 cooperatives. (Coop. - ARS; AMS; CSS; & FES)
- FCS a-1-2-12 Assistance to cooperative managements in the analysis of
 efficiency in milk delivery.
- FCS 3101-7 Economic appraisal of transportation and related costs
 in marketing processed poultry and eggs and distributing
 poultry feed by cooperatives and other selected handlers
 in the North Central States. (Coop. - AMS)
- FCS 3102-8 Comparative analysis of seasonal pricing plans for dairy
 cooperatives. (Coop. - AMS; & FES)
- FCS 3104-7 Marketing test for frozen fresh cranberries. (Coop. -
 AMS-MD)

DISCONTINUED LINE PROJECTS

ARS, CROPS RESEARCH

- ENT a5-5 Physiological studies of the reactions of fruit flies in
 Hawaii to light, temperature and chemical stimuli.
- ENT a5-7 Production of fruit flies tagged with radioactive
 materials.
- ENT a6-6 Control of fruit flies through elimination of breeding
 sources with special reference to the use of chemicals
 to regulate host fruit planting.
- ENT a6-7 Equipment for application of insecticides for fruit fly
 control.

ARS, LIVESTOCK RESEARCH

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| APH e4-1 | Variation and inheritance of market egg characteristics in fowl affected by Newcastle Disease. |
| APH e4-2 | Variation and inheritance of egg yolk color pigmentation. |
| APH e6-6 | Studies on the natural transmission of lymphomatosis through the egg. |
| APH e6-7 | A study of fecal and urinary excretions and of oral and respiratory tract secretions as a source of infection in the transmission of visceral lymphomatosis in poultry. |
| APH e6-9 | A study of the transmission of neural lymphomatosis in poultry by inoculation and variation of environment. |
| APH e6-11 | A study of the biological properties of the agent of visceral lymphomatosis by egg inoculation. |
| APH e6-13 | A histo-cyto-chemical study of poultry tissues infected with visceral lymphomatosis. |
| APH e6-14 | Preparation of an atlas of avian hematology. |
| APH e6-15 | A study of the adaptation of the agent (or agents) and tumor cells of the avian leukosis complex to the laboratory mouse. |

ARS, HOME ECONOMICS RESEARCH

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| HHE 1-4 | Nutritional evaluation of food used in institutions, with implications for food management. |
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ARS, EXPERIMENT STATIONS DIVISIONS

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| TES VI 1-10 | Water conservation investigations of different soil types. |
| TES VI 1-18 | Village rehabilitation. |

AMS, AGRICULTURAL ECONOMICS

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|------------|---|
| AEc FP 1-3 | Replacement rates for farm men of working age, for counties, economic areas and States, 1950-60. |
| AEc FP 1-5 | Analysis of the composition of the 1950 farm population, from the collated sample of the Census of Population, Housing and Agriculture. |

Discontinued Line Projects(contd.)

AMS, MARKETING RESEARCH

BS 3-23	Dielectric treatment of rough rice.
MD 1-5	Consumers' use of and opinions about different kinds of pie fillings and uses of canned and frozen cherries.

FARMER COOPERATIVE SERVICE

FCS a-1-4-13	Improvement of marketing systems for Louisiana strawberries.
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UNITED STATES DEPARTMENT OF AGRICULTURE
U.S. AGRICULTURE RESEARCH SERVICE,
Central Project Office

3 Line Project Approvals and Discontinuances Recorded During
March 1954

NEW LINE PROJECTS

The parenthetical references following some of the line projects indicate the Department agencies and/or State agricultural experiment stations cooperating. Cooperation with other agencies or industrial organizations is not indicated in this list.

CROPS RESEARCH

FC a-1-9-3 - Breeding winter rye for the southern states. (N.Y., Ga., & Fla., State Agr. Expt. Stations).

HC b-11-4-14 Flora of Dominica, British West Indies, Part I

FARM AND LAND MANAGEMENT RESEARCH

PE A-1-20-50 Production alternatives to wheat in the Central Great Plains.

SWC d-2-1-23 Liming materials from waste and byproduct sources.

SWC d-2-1-24 Chemical composition and physical characteristics of agricultural limestone.

SWC d-2-1-25 Development of laboratory methods for quality evaluation of liming materials on soils. (Ohio Agr. Expt. Sta.)

FARMER COOPERATIVE SERVICE

a-1-12-12 Programs and training projects in agricultural cooperation for foreign nationals. (FAS)

3102-6 Improving techniques for pooling and making returns to patrons by cooperatives and other shippers and processors of fruits and vegetables.

LIAISON OFFICE, COMMISSIONERS OF AGRICULTURE

4550-6 To provide additional basic data and marketing information
(Ind.) relating to supplies, facilities, movements, and prices for Indiana agricultural products. (Ind. Agr. Expt. Sta.)



LIVESTOCK RESEARCH

ADP	c-5-5-6	Acquisition of internal parasites by cattle in feed lots and on pastures. (Nebr. Agr. Expt. Sta.)
APH	b-6-6-26	Studies on the immunity of chickens to visceral lymphomatosis.
DH	a-2-8-20	Development of techniques for improving dairy herd sires. (East Lansing, Mich., & Madison, Wis., Agr. Expt. Stas.)
DH	a-2-9-12	Effects of chopped versus long hay on feed consumption and growth of young Jersey calves. (N.C. Coastal Plain Expt. Sta.)

MARKETING RESEARCH

MD	4002-7(C)	Women's experience with and opinions about selected items of clothing. (State Agr. Expt. Stas.)
MOC	M-3-3-4	Regional marketing research on potatoes.

OFFICE OF EXPERIMENT STATIONS

RM:c-701-10 (Conn.)	Marketing margins as affected by capital costs and price policy. (AMS)
RM:c-701-11 (Ind.)	Shipping day-old baby chicks by rail and air with special reference to type and size of container as related to early mortality and growth of the chick.
RM:c-701-12 (Iowa)	Patterns, costs and economic efficiency of the transportation of Iowa cash grain with emphasis on truck movement. (AMS and Iowa Agr. Expt. Sta.)
RM:c-702-13 (Mich.)	Determination of the elasticities of demand for specific meats and specific cuts of meat. (AMS)
RM:c-702-14 (R.I.)	Consumer acceptance, preference and buying habits for cut-up and frozen chicken.

OFFICE OF EXPERIMENT STATIONS(continued)

RM:c-703-22 (Fla.)	Marketing charges and returns from Florida vegetables by types of firms and methods of sale. (AMS)
RM:c-703-23 (Fla.)	Market organization and selling practices of Florida fern, gladiolus, chrysanthemum, and other cut-flower and ornamental producers. (AMS)
RM:c-703-24 (Ga.)	Marketing fruits and vegetables through commercial processors. (AMS)
RM:c-703-25 (Ind.)	An economic analysis of the factors affecting hog prices.
RM:c-703-26 (Md.)	Marketing wheat, corn, and soybeans in Maryland.
RM:c-703-27 (Md.)	Marketing Maryland livestock.
RM:c-703-28 (Cornell-N.Y.)	Specifications and costs for model milk pasteurizing and bottling plants. (Pa. & Va. Agr. Expt. Stas.)
RM:c-703-29 (Pa.)	Specifications and costs for model milk pasteurizing and bottling plants. (Cornell-N.Y. & Va. Agr. Expt. Stas.)
RM:c-703-30 (Texas)	Patronage patterns of Agricultural producers in the markets. (AMS)
RM:c-703-31 (Va.)	Specifications and costs for model milk pasteurizing and bottling plants. (Pa. & Cornell-N.Y. Agr. Expt. Stas.)
RM:c-703-32 (Wash.)	Economics of retailing meat products.
RM:c-704-20 (S.D.)	Economic and practical problems in development of market news service for feeder cattle and feeder lambs at local auction markets.

UTILIZATION RESEARCH

SU	u-2-1-60(C)	Treatment of cotton with inorganic materials to produce cotton textiles with improved light-stability, durability, and physical properties.
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New Line Projects
(continued)

UTILIZATION RESEARCH(continued)

SU	u-2-1-61(C)	Development of improved procedures for location cleaning of cotton carpets.
WU	u-3-1-45	Factors affecting the shelf life of dehydrocanned prunes under varying temperature conditions.
EU	u-6-3-28(C)	Preservation of vitamin A and carotene in animal feeds during storage by the addition of stabilized greases and tallows, and the effect of such addition on the growth performance of chicks. (APH)

LINE PROJECTS COVERING OLD WORK & REVISIONS

CROP RESEARCH

FC	a-2-6-1	Abaca, sisal, henequen and other hard fibers not produced in the United States. (FAS)
FC	a-2-7-1	Developing improved cultural practices for fiber flax production. (Oregon Agr. Expt. Sta.)
FC	a-2-7-2	Fiber flax variety improvement. (Oregon Agr. Expt. Sta.)
FC	a-2-7-4	Mulvaceous fiber production and processing methods. (Fla. Agr. Expt. Sta. and FAS)
FC	a-2-7-5	Ramie culture and fiber preparation. (Fla. Agr. Expt. Sta. and FAS)
FC	a-2-7-6	Study of the properties, preparation and uses of miscellaneous plant fibers and maintenance of a fiber herbarium. (Oregon and Fla. Agr. Expt. Stas. and FAS)
FC	g-5-1-1(Rev.)	Sansevieria production investigations. (Fla. Agr. Expt. Sta.)
FC	g-5-1-4(Rev.)	Studies of hemp and kenaf seed storage conditions. (Kentucky and Wash. Agr. Expt. Stas. and FAS)
ENT	I-m-8-2(Rev.)	Studies on insect physiology in relation to the mode of action of insecticides.

Line Projects Covering Old Work & Revisions
(continued)

FARMER COOPERATIVE SERVICE

- a-1-1-2(Rev.) Analysis of operating expenses of cooperative soybean oil mills. (AMS)
- a-1-6-4(Rev.) Cooperative marketing of wool in the United States.
- a-1-11-1(Rev.) Annual statistical survey of farmers' cooperative marketing and purchasing assns.

LIVESTOCK RESEARCH

- APH b-4-2-28(Rev.) Growth, development, and reproductive performance of heifers and cows under different winter feeding treatments. (Okla. Agr. Expt. Sta.)

DISCONTINUED LINE PROJECTS

CROPS RESEARCH

- ENT I-m-1-11 Chemical studies on the utilization of Tripterygium wilfordii Hook. f. as an insecticide.
- ENT I-m-7-1 Identification of the gypsy moth sex attractant.

FARMER COOPERATIVE SERVICE

- a-1-7-2 The development and status of the cooperative marketing of turkeys in the United States.
- a-1-7-4 Study of cooperative poultry hatcheries.
- a-1-12-4 Distinctive phases of accounting for Farmers' Cooperatives.

LIVESTOCK RESEARCH

- DH a-3-4-2 The vitamin A requirements affecting normal growth and health of calves and growing cattle.
- DH a-3-4-16 Relative utilization of carotene from dehydrated alfalfa and vitamin A in the dry form by dairy calves during the summer months.
- DH a-3-8-4 The effect of heredity on infertility in dairy cattle.

AGENCY ABBREVIATIONS
(For use in identifying line projects)

AGRICULTURAL RESEARCH SERVICE

ADP Animal Disease & Parasite Research Branch
AE Agricultural Engineering Research Branch
APH Animal & Poultry Husbandry Research Branch
DH Dairy Husbandry Research Branch
DU Washington Utilization Research Branch
ENT Entomology Research Branch
EU Eastern Utilization Research Branch
FC Field Crops Research Branch
HC Horticultural Crops Research Branch
HE Home Economics Research Branch
HN Human Nutrition Research Branch
NU Northern Utilization Research Branch
OES Office of Experiment Stations
PE Production Economics Research Branch
SU Southern Utilization Research Branch
SWC Soil & Water Conservation Research Branch
WU Western Utilization Research Branch

AGRICULTURAL MARKETING SERVICE

AEC Agricultural Economics Division
AES Agricultural Estimates Division
MOC Market Organization & Costs Branch
TF Transportation & Facilities Branch
BS Biological Sciences Branch
MD Market Development Branch
LOA Liaison Office, Commissioners of Agriculture
SCO Statistical Clearance Office
MS Marketing Services Divisions

EXTENSION SERVICE

Extn.

FOREIGN AGRICULTURAL SERVICE

FAS

FARMER COOPERATIVE SERVICE

FCS

FOREST SERVICE

FS



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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURE RESEARCH SERVICE
Central Project Office

Line Project Approvals and Discontinuances Recorded During
April 1954

NEW LINE PROJECTS

The parenthetical references following some of the line projects indicate the Department agencies and/or State agricultural experiment stations cooperating. Cooperation with other agencies or industrial organizations is not indicated in this list.

ARS, CROPS RESEARCH

ENT I-f-3-17 Evaluation of electric lamps and traps for detection and control of the pink bollworm. (Texas Agr. Expt. Station; AE).

ARS, FARM AND LAND MANAGEMENT RESEARCH

AE e-4-1-29 Determination of combined effects of germicidal radiation and antibiotics on growing chickens. (Storrs, Conn. Agr. Expt. Sta.)

PE A-1-27-8 Economics of harvesting, storage and feeding of forage crops. (Wisconsin Agr. Expt. Station).

SWC AEC-0-3-8 Intracellular distribution of ions in normal plants vs. plants under nutritional stress.

SWC AEC-0-3-9 Fundamental studies in plant biochemistry.

SWC AEC-0-3-10 Metallic ion activation of enzymes and energy coupling in ion sorption by plants.

ARS, LIVESTOCK RESEARCH

ADP c-6-6-7 Roundworm parasites of cattle on irrigated pastures in the southwest. (New Mexico Agr. Expt. Station).

ARS, HUMAN NUTRITION AND HOME ECONOMICS RESEARCH

HE a-2-2-8(C) The economics of household production of clothing and textile articles.

ARS, OFFICE OF EXPERIMENT STATIONS

P.R.	b-1-9-14	Cytogenetic investigations of the Caricaceae papaya. (Agr. Expt. Station of the University of Puerto Rico.)
AL.	AL-1-7-4 (F)	Develop control methods for emergency insect outbreaks. (Alaska Expt. Station.)
AL.	AL-1-7-6 (F)	Insect pollination. (Alaska Expt. Station.)

AMS, MARKETING RESEARCH

MD	RM:c-389-4(C)	Surveys of continuous consumer purchases of dairy substitutes and dairy products.
MOC	1001-22	Economics of disposing of waste products of poultry and egg processing and hatcheries. (MS)
MOC	3002-3	Quantities of fresh, frozen and canned fruits used by the pie baking industry.
MOC	3002-4	Quantities of fresh, frozen and canned fruit used by the preserve industry.
MOC	3002-5	Quantities of fresh, frozen and preserved fruits used by the ice cream manufacturing industry.
MOC	3002-6(C)	Quantities of frozen foods used by public eating places and institutional outlets.

LINE PROJECTS COVERING OLD WORK AND REVISIONS

ARS, CROPS RESEARCH

FC	a-6-1-5(Rev.#2)	Sugar beet breeding for rust and downy mildew resistance and for non-bolting. (Oregon and Calif. Agr. Expt. Stations).
ENT	I-m-2-7(Rev.)	Development of suitable formulations of benzene hexachloride and similarly volatile insecticides for insect control.

ARS, FARM AND LAND MANAGEMENT RESEARCH

AE	e-4-1-9(Rev.)	Development of electrical methods for environmental control in poultry houses. (Storrs, Conn., Expt. Station).
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DISCONTINUED LINE PROJECTS

ARS, CROPS RESEARCH

HC	b-11-4-7	The ferns of Texas: A systematic and distributional study.
HC	b-11-4-8	The orchids of Guatemala: A systematic and distributional study.
HC	b-11-4-10	Botany and vegetation of Korea, a non-technical description.
ENT	I-a-4-1(Rev.)	Dispersal of the citrus blackfly, <u>Aleurocanthus woglumi</u> .

ARS, LIVESTOCK RESEARCH

APH	b-1-7-2	A study of meat characteristics of hogs representing certain strains developed from the cross between the Danish Landrace and Hampshire breeds.
--	a-5-8-15	Distribution of calcium in skim milk.

ARS, FARM AND LAND MANAGEMENT RESEARCH

AE	e-2-3-2	Studies of structural, ventilation and environmental requirements for safe storage of ear and shelled corn on the farm.
SWC	d-2-1-13	Preparation and properties of complex calcium phosphates in fertilizers.
SWC	d-2-1-14	Nature of fertilizer products made from phosphate rock by furnace methods.

ARS, UTILIZATION RESEARCH

EU	u-3-3-7(C).	Development of new and improved commercial procedures for ripening and processing Eastern free-stone peaches.
EU	u-3-3-9	Development of improved dehydrated products from blueberries and cranberries.
NU	u-1-1-31(C)	Fungal amylase process for the conversion of damaged grains into alcohol.

Discontinued Line Projects
(continued)

ARS, UTILIZATION RESEARCH (continued)

NU	SLF-1-0-1	Engineering design, drafting, and collection of engineering data.
NU	SLF-1-0-2	Continuous process for the saccharification of agricultural residues.
NU	SLF-1-0-4	Production of furfural from pentosan hydrolyzates.
SU	u-1-4-4(C)	The effect of drying, storage, and processing factors on the quality of rice.
SU	u-2-1-20(C)	Factors which influence the draping properties of cotton fabrics.
SU	u-2-1-25(C)	Improvement of the luster of cotton textiles.
SU	u-4-1-13	The application and control of the enzymes and enzyme systems of cottonseed and peanuts and their derived products.
SU	u-4-1-19(C)	The influence of methods of processing of cottonseed meal on the utilization of the meal in baked foods.
SU	u-4-1-22	Investigation of the processes and products of catalytic hydrogenation of ethylenic linkages in cottonseed and peanut oils.

ARS, OFFICE OF EXPERIMENT STATIONS

P.R.	b-1-7-11	Stability, toxicity, and commercial possibilities of fresh derris root latex.
P.R.	b-1-7-12	The application of flame photometry to the mineral analysis of plant material.
P.R.	b-1-7-13	The collection of ultraviolet absorption spectra of insecticidal and related compounds.
P.R.	b-1-7-14	The isolation and identification of the toxic components of mamey.
P.R.	b-1-9-7	Papaya improvement.

Discontinued Line Projects
(continued)

AMS, MARKETING RESEARCH

MD	4002-3	Opinions and practices regarding fibers among cordage and twine manufacturers.
MOC	CCC-1-3-2	Evaluation of a dry milling process for grain sorghums, and acceptance of the resulting products in commercial channels.

1. The first part of the paper is devoted to a general discussion of the problem.

2. The second part is devoted to a detailed analysis of the results.

3. The third part is devoted to a discussion of the results.

4. The fourth part is devoted to a discussion of the results.

AGENCY ABBREVIATIONS
(For use in identifying line projects)

AGRICULTURAL RESEARCH SERVICE

ADP	Animal Disease & Parasite Research Branch
AE	Agricultural Engineering Research Branch
APH	Animal & Poultry Husbandry Research Branch
DH	Dairy Husbandry Research Branch
DU	Washington Utilization Research Branch
ENT	Entomology Research Branch
EU	Eastern Utilization Research Branch
FC	Field Crops Research Branch
HC	Horticultural Crops Research Branch
HE	Home Economics Research Branch
HN	Human Nutrition Research Branch
NU	Northern Utilization Research Branch
OES	Office of Experiment Stations
PE	Production Economics Research Branch
SU	Southern Utilization Research Branch
SWC	Soil & Water Conservation Research Branch
WU	Western Utilization Research Branch

AGRICULTURAL MARKETING SERVICE

AEC	Agricultural Economics Division
AEs	Agricultural Estimates Division
MOC	Market Organization & Costs Branch
TF	Transportation & Facilities Branch
BS	Biological Sciences Branch
MD	Market Development Branch
LCA	Liaison Office, Commissioners of Agriculture
SCO	Statistical Clearance Office
MS	Marketing Services Divisions

EXTENSION SERVICE

Extn.

FOREIGN AGRICULTURAL SERVICE

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FS

